F.H.W.A. REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
	MD			

Intersection Operation

MD 118 and Dawson Farm Road

This intersection is to operate in a semi-traffic-actuated mode with MD 118 approaches running concurrently and Dawson Farm RD approaches running concurrently.

An eight (8) phase, full-traffic-actuated, solid state digital controller with five (5) two-channel loop detector amplifiers with time delay output housed in a base-mounted cabinet size "6", is to be installed at this location. The controller is to operate in a Nema eight (8) phase, semi-traffic-actuated mode.

This intersection will be interconnected with the Montgomery County computerized signal system.

Special Notes

1. The Contractor shall trench all conduits prior to roadway pavement unless noted otherwise on the plans or in the specifications.

2. Maintenance of traffic will be handled by the contractor utilizing the following standard plates for traffic contol: 105.00, 105.01, 105.02, 105.309, 105.311.

3. The following contract persons for SHA Office of Traffic and District 3 are as follows:

   Mr. Paul Armstrong
   District Engineer (Acting)
   Phone# (301) 513-7311

   Mr. Maj Shakib
   Asst. District Engineer - Taffic
   Phone# (301) 513-7359

   Mr. Carter Wilson
   Asst. District Engineer
   Phone # (301) 513-7305

   Mr. Francis Lauer
   Asst. District Engineer - Utilities
   Phone # (301) 513 - 7351

   Mr. Richard L. Daff Sr.
   Chief, Traffic Operations Division
   Phone # (410) 787-7630

4. The Signal Contractor shall be responsible for terminating all signal cables, excluding interconnect, to the appropriate signal terminals and shall properly label each cable.

5. The Signal Contractor is to route all proposed signal cables to the base of the existing cabinet and properly label each cable. MCDOT forces shall be responsible for the internal wiring of the cabinet.

6. The Signal Contractor is to run interconnect cables to the base of each cabinet and properly tag all cables. MCDOT forces shall be responsible for performing all splicesl and connectionsof the interconnect cables.

7. Interconnect shall be maintained to all traffic signals at all times.

CONSTRUCTION DETAILS

1. Install 12" x 30' steel strain pole with 250 watt HPS lamp, luminaire, 20 ft lighting arm, pedestrian signals, pedestrian pushbutton and sign. (Note: one-2", schedule 80 PVC 90 degree conduit bend for power service, two-3", schedule 40 PVC 90 degree conduit bends).

2. Install 12" x 30'steel strain pole 250 watt HPS lamp luminaire, 20 ft lighting arm, pedestrian signals, pedestrian pushbutton and sign. (Note: one-3", sch 40 90 - degree conduit bend)

4. Install handhole.

5. Install 6' x 6' loop detector encased in 1/4" flexible tubing (3 turns).

6. Install 1" liquid tight, flexible conduit sleeve for detector wire.

7. Install 6' x 30' loop detector encased in 1/4" flexible tubing, (2-4-2) quadrupole type.

8. Install 3" sch 40 polyvinyl chloride electrical conduit (trenched).

9. Install 4", schedule 80 PVC electrical conduit-trenched, prior to installation of pavement.

10. Install 4" polyvinyl chloride electrical conduit 40 (trenched).

12. Install base-mounted cabinet and controller with all necessary equipment as shown. (Note: 1-2" sch 80 PVC (for power service), 90-degree conduit bend, 2-4" sch 40 polyvinyl chloride, 90-degree conduit and 1-3" sch 40 polyvinyl chloride, 90-degree conduit)

13. Install 3/8" span wire, signals and signs as shown, signs and five-section signal heads are to be tethered using 1/4" steel span wire.

46. Install 24" white permanent preformed pavement marking for stop line.

47. Install 12" white permanent preformed pavement marking for crosswalk.

49. Install handhole (alternate brick).

50. Install preformed pavement marking Arrow.

EQUIPMENT LISTS

A. Equipment to be supplied by the Administation.

ITEM NO.	QUANTITY	SPECIICATION SECTION	DESCRIPTION
	2 EA	814	8 inch 1-way, 3-section (R, Y, G) signal head - span mount.
	8 EA	814	12 inch 1-way, 3-section (R, Y, G) signal head - signal head - span mount.
	4 EA	817	Pushbutton and signs (R10-3C).
	4 EA	814	12 inch 2-way, 2-section pedestrian signal heads - pole mount.
	1 EA	816	Eight-phase, (fully actuated) and cabinet controller with all necessary equipment for Montgomery County
	5 EA	817	Two-channel loop detector amplifier with time delay output.
	109 SF	813	Sheet aluminum signs - span mount consisting of:
	2 EA		D3-2 dual face (VAR x 16") "Germantown Rd." sign.
	2 EA		D3-2 dual face (VAR x 16") "Dawson Farm RD." sign.
	4 EA		R3-5L (30" X 36") Left turn 'ONLY'
	4 EA		W3-3 new (36" x 36") sign.

B. Equipment to be furnished and/or installed by the Contractor.

ITEM NO.	QUANTITY	SPECIICATION SECTION	DESCRIPTION
	4 EA	555	Preformed pavement marking arrow
	4 EA	806	250 watt high pressure sodium lamp and luminaire
	12.5 CY	801	Concrete for signal foundations
	4 EA	812	20 ft lighting arm on signal structure
	4 EA	804	Ground rod (3/4" solid copper x 10 LF)
	675 LF	810	2 conductor Tray Cable (No. 12 AWG)
	4 EA	828	12" x 30' 2 ply steel strain pole (Note: Install 4-1 3/4" x 90" anchor bolts.)
	100 LF	805	1" liquid tight flexible electrical conduit (detector wire sleeve)
	110 LF	805	3" polyvinyl chloride electrical conduit - schedule 40 - (trenched)
	25 LF	805	4" polyvinyl chloride electrical conduit - schedule 40 - (trenched)
	73 SF	813	Install overhead signs.
	36 SF	813	Install ground mount signs.
	60 LF	XXX	Wooden sign suports (4" X 4")
	4 EA	814	Install pedestrian signal head - pole mount
	10 EA	814	Install signal head - span mount
	2245 LF	810	Loop wire encased in flexible tubing (No. 14 A.W.G.)
	1435 LF	810	electrical cable 2-conductor (aluminum shielded)
	675 LF	810	electrical cable 2-conductor (No. 14 A.W.G.)
	750 LF	810	electrical cable 5-conductor (No. 14 A.W.G.)
	1075 LF	810	electrical cable 7-conductor (No. 14 A.W.G.)
	840 LF	815	Sawcut for signals (loop detector)
	7 EA	811	Handhole
	1 EA	811	Handhole (alternate brick)
	450 LF	819	steel span wire 3/8 inch diameter
	450 LF	819	steel span wire 1/4 inch diameter
	85 LF	805	4" polyvinyl chloride electrical conduit sch 80 - slotted.
	160 LF	805	4" polyvinyl chloride electrical conduit sch 80 - trenched.
	50 LF	810	Ground wire 1 conductor No. 6 AWG, solid
	1 EA	XXX	Asbuilt traffic control signal using existing disk.
	1 EA	807	Control and distibution
	1 EA	816	Eight phase (fully actuated) controller and cabinet - Base mount

REVISIONS	APPROVALS
	CHIEF, SIGNAL DESIGN SECTION
	ASST. DISTRICT ENGINEER, TRAFFIC
	CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
	DIRECTOR, OFFICE OF TRAFFIC & SAFETY

DCI
CONSULTING ENGINEERS
COLUMBIA, MARYLAND

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION

ORIGINAL DRAWN BY: R. CICCHINI
DES. BY: R. MILSTEAD
CHK. BY:

MD 118 AT DAWSON FARM RD
GENERAL INFORMATION SHEET
(SHEET 2 OF 2)

LOG MILE *
COUNTY: MONTGOMERY

DATE: 10/95
SCALE: NOT TO SCALE
F.A.P. NO.
S.H.A. NO. M 969 452-371

TS/FILE NO.

SHEET NO. ____ OF ____